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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/821,397 04/09/2004		Chun Hung Ning	BP 3384	8437	
34399	7590	08/31/2006	EXAMINER		
		& MARKISO	MYERS, PAUL R		
P.O. BOX 16 AUSTIN, T	x 78716-0727	•		ART UNIT	PAPER NUMBER
				2112	
				DATE MAILED: 08/31/2006	6

Please find below and/or attached an Office communication concerning this application or proceeding.

			pplication No.	Applicant(s)	Applicant(s)		
		1	0/821,397	NING ET AL.			
Office Action Summary			xaminer	Art Unit			
			aul R. Myers	2112			
 Period for	The MAILING DATE of this communic Reply	cation appear	s on the cover sheet w	vith the correspondence a	address		
WHICH - Extens after SI - If NO p - Failure Any rep	RTENED STATUTORY PERIOD FOR HEVER IS LONGER, FROM THE MAKE IS LONGER, FROM THE MAKE IS LONGER, FROM THE MAKE IS A CONTROL OF THE MAKE IS A CONTROL	AILING DATE of 37 CFR 1.136(a) unication. utory period will al vill, by statute, cau	E OF THIS COMMUN In no event, however, may a pply and will expire SIX (6) MO se the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this BANDONED (35 U.S.C. § 133).			
Status							
2a)□ 1 3)□ 5	Responsive to communication(s) filed this action is FINAL . Since this application is in condition followed in accordance with the practic	b)⊠ This ac or allowance	tion is non-final. except for formal ma	• •	ne merits is		
Dispositio	n of Claims						
5)	Claim(s) <u>1-26</u> is/are pending in the aparts) Of the above claim(s) is/are claim(s) is/are allowed. Claim(s) <u>1-26</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restrict	e withdrawn					
Applicatio	n Papers						
10)□ T A	he specification is objected to by the he drawing(s) filed on is/are: applicant may not request that any objected to he oath or declaration is objected to	a) accepto tion to the draw the correction	wing(s) be held in abeya is required if the drawing	nnce. See 37 CFR 1.85(a). g(s) is objected to. See 37			
Priority un	der 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
	of References Cited (PTO-892)			Summary (PTO-413)			
2) Notice 3) Informa	of Draftsperson's Patent Drawing Review (PT ation Disclosure Statement(s) (PTO-1449 or F No(s)/Mail Date		Paper No	(s)/Mail Date Informal Patent Application (P	TO-152)		

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-26 have been considered but are moot in view of the new ground(s) of rejection.

In regards to applicants argument that the examiner states that that "Askar does not teach translating formats from an internal format to a second format": This is <u>not</u> what was stated in the rejection. In the rejection the examiner stated "Askar does teach translating formats from an internal format to a second format" The word "not" was added by the applicants and not in the rejection. Askar teaches translating from the internal format to a second format. Askar does not teach translating from a first format into the internal format then translating from the internal into a second format. Askar only teaches the second half of the translating. However the examiner notes in the rejection he inadvertently forgot to include the statement that Official notice is taken that translating from a first format to an intermediate format to a second format is well known. In fact it is so common that it has an acronym in the art (CIF) which stands for common intermediate format.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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3. Claims 1-2, 5-15, 18-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Askar et al PN 6,725,297 in view of what is well known in the art as evidenced by any of PN 5,995,923 to Mermelstein et al or PN 7,096,310 to Norden or PN 5,905,873 to Hartmann et al or JP41004087A to Leprince et al or EP1117049A1 to Hofmann et al or EP1555816A1 to Schwendowius et al.

In regards to claims 1, 14: Askar et al teaches a system for managing data transactions between a first bus (140 or alternatively 50) and a second bus (560), comprising: a first transaction conversion module (355 or alternatively 120) operably connected to said first bus (140), said first transaction conversion module being operable to receive transactions from said first bus in a first format; a fully programmable ordering rules logic module (everything between 355 and 470 The examiner notes the figure refers to 490 the specification refers to 470) operably connected to said first transaction module (355) to receive said converted transactions in said internal format and to control issuing of said transactions in accordance with a dependency relationship between said individual transactions and further operable to issue validated transactions (Out of arbitration logic 410); a second transaction conversion module (470) operably connected to said transaction ordering logic and to said second bus (560), said second transaction conversion module being operable to convert said validated transactions into a second format for said second bus (Column 9 lines 31-40). Askar teaches the first transaction conversion module extracting the transactions off the first bus but does not teach converting said transactions into an internal format. Askar does teach translating formats from an internal format to a second format. Official notice is taken that translating to an intermediate format is very well known. It would have been obvious to have the first transaction module translate from a first

format into the internal format of the peripheral interface circuit because this would have allowed for different bus 50/140 protocols.

In regards to claims 2, 15: the different buses having different ordering rules.

In regards to claims 5, 9-10, 18, 22-23: Askar teaches configuring the arbiters. Askar does not teach the configuration using configuration registers. Official notice is taken that using configuration registers to configure a device is very common. It would have been obvious to a person of ordinary skill in the art at the time of the invention to use a configuration register in configuring because this is a common method of configuring.

In regards to claims 6-8, 11, 19-21, 24: Askar teaches multiple arbiters 410 in 2nd,3rd interfaces See also figure 13 which reorders the transactions within each queue.

In regards to claims 12-13, 25-26: Askar teaches both dependant and non-dependant ordering.

4. Claims 3, 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Askar et al PN 6,725,297 as applied to claim 1 above, and further in view of Turner PN 5,260,935.

In regards to claims 3, 16: Askar et al teaches reordering transactions. Askar et al does not teach using a time stamp in reordering the transactions. Turner teaches using a time stamp in reordering transactions. It would have been obvious to a person of ordinary skill in the art at the time of the invention to use a time stamp because this would have allowed for transactions that are highly time dependant such as graphics be used.

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5. Claims 4, 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Askar et al PN 6,725,297 as applied to claim 1 above, and further in view of Jeddeloh PN 2003/0217239.

In regards to claims 4, 17: Askar teaches reordering the transactions. Askar does not teach the reordering is to optimize the availability of the bus. Jeddeloh teaches reordering transactions to optimize the availability of the bus. It would have been obvious to optimize the bus because this would have allowed for maximum efficiency.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul R. Myers whose telephone number is 571 272 3639. The examiner can normally be reached on Mon-Thur 6:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rehana Perveen can be reached on 571-272-3676. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PRM

August 28, 2006

PAUL R. MYERS
PRIMARY EXAMINER

Paul R. Mys